

Plant-level Control and Protection Modeling Task Force (PCPMTF) Scope

Purpose

Study the effects of plant-level, turbine, and boiler control and protection systems on power system stability. The task force will take a comprehensive look at the short- and mid-term post-disturbance behavior of these control and protection systems, outlining the impacts they could have on unit reliability and system stability during grid disturbances. This examination will lead to development of models and/or modeling practices sufficient to capture the critical control functions as well as guidelines around these control functions.

Activities

1. Collaborate on the timely development of models and/or modeling practices for plant-level, turbine protection, and control functions that are important for stability studies.

Deliverables

As assigned by the System Analysis and Modeling Subcommittee (SAMS) or the Planning Committee.

Membership

The PCPMTF membership will consist of subject matter experts (SMEs) in the area of plant-level controls and protection, including manufacturers of these controls and boilers, in addition to powerflow and dynamics modeling experts. Membership will also be open to other SME volunteers from the industry. A NERC staff member will be assigned as the non-voting Task Force Coordinator.

The working group chair and vice chair are appointed by the chair of SAMS for one two-year term. The vice chair should be available to succeed the chair.

Meetings

One to three open meetings per year, or as needed.

Reporting

The PCPMTF administratively reports to the System Analysis and Modeling Subcommittee of the Planning Committee.

Relation to NERC Modeling Improvements Initiative

The tasks associated with the PCPMTF are part of the overall NERC Modeling Improvements Initiative launched to address the ongoing quality and usefulness of the powerflow and dynamics base cases.